1. Record Nr. UNISA996213101203316

Titolo	Transactions of the Philological Society
Pubbl/distr/stampa	[Oxford], : Blackwell Publishers Oxford : , : John Wiley & Sons Ltd
ISSN	1467-968X
Disciplina	410/.5
Soggetti	Philology Language & Linguistics Filologie Taalwetenschap Langue Linguistique Philologie Periodicals. Périodique électronique (Descripteur de forme) Ressource Internet (Descripteur de forme)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

2. Record Nr. UNINA9910484330603321

Titolo	Authentication of Embedded Devices : Technologies, Protocols and Emerging Applications / / edited by Basel Halak
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-60769-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XV, 188 p. 74 illus., 36 illus. in color.)
Disciplina	621.3815
Soggetti	Electronic circuits Cooperating objects (Computer systems) Microprocessors Computer architecture Electronic Circuits and Systems Cyber-Physical Systems Processor Architectures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Integrated Circuit Fingerprinting -- Novel PUF designs for device Identification -- Authentication Protocols: Standards, limitation and research opportunities -- Hardware-based Authentication Protocols for better physical security -- Energy Efficient Authentication Protocols -- Case study 1: Securing Hardware Supply Chain -- Case study 2: GPS spoofing attack detection and survival.
Sommario/riassunto	This book provides comprehensive coverage of state-of-the-art integrated circuit authentication techniques, including technologies, protocols and emerging applications. The authors first discuss emerging solutions for embedding unforgeable identifies into electronics devices, using techniques such as IC fingerprinting, physically unclonable functions and voltage-over-scaling. Coverage then turns to authentications protocols, with a special focus on resource-constrained devices, first giving an overview of the limitation of existing solutions and then presenting a number of new protocols, which provide better physical security and lower energy dissipation.

The third part of the book focuses on emerging security applications for authentication schemes, including securing hardware supply chains, hardware-based device attestation and GPS spoofing attack detection and survival. Provides deep insight into the security threats undermining existing integrated circuit authentication techniques; Includes an in-depth discussion of the emerging technologies used to embed unforgeable identifies into electronics systems; Offers a comprehensive summary of existing authentication protocols and their limitations; Describes state-of-the-art authentication protocols that provide better physical security and more efficient energy consumption; Includes detailed case studies on the emerging applications of IC authentication schemes.